

RECEIVED #6

MAY 01 2001

1643

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 04/17/2001

PATENT APPLICATION: US/09/641,931A

TIME: 14:39:26

Input Set : A:\Robicl.app

Output Set: N:\CRF3\04172001\I641931A.raw

ENTERED

3 <110> APPLICANT: Phenogene Therapeutiques Inc.
 5 <120> TITLE OF INVENTION: Nucleic Acid Molecule, Method and Kit for Selecting a
 6 Nucleic Acid Having A Desired Feature
 8 <130> FILE REFERENCE: 2003390-0001
 10 <140> CURRENT APPLICATION NUMBER: 09/641,931A
 11 <141> CURRENT FILING DATE: 2000-08-18
 13 <160> NUMBER OF SEQ ID NOS: 32
 15 <170> SOFTWARE: PatentIn Ver. 2.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 24
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Artificial Sequence
 22 <220> FEATURE:
 23 <223> OTHER INFORMATION: sequence is completely synthesized
 25 <400> SEQUENCE: 1
 26 ggatccaata gaggattctt taac 24
 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 21
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Artificial Sequence
 34 <220> FEATURE:
 35 <223> OTHER INFORMATION: sequence is completely synthesized
 37 <400> SEQUENCE: 2
 38 tcaccactct tctgtccctt c 21
 41 <210> SEQ ID NO: 3
 42 <211> LENGTH: 25
 43 <212> TYPE: DNA
 44 <213> ORGANISM: Artificial Sequence
 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: sequence is completely synthesized
 49 <400> SEQUENCE: 3
 50 ggatcctacg aacatgacgac cactg 25
 53 <210> SEQ ID NO: 4
 54 <211> LENGTH: 21
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: sequence is completely synthesized
 61 <400> SEQUENCE: 4
 62 tcatcttcgt gtgctagtca g 21
 65 <210> SEQ ID NO: 5
 66 <211> LENGTH: 30
 67 <212> TYPE: DNA
 68 <213> ORGANISM: Artificial Sequence
 70 <220> FEATURE:
 71 <223> OTHER INFORMATION: sequence is completely synthesized
 73 <400> SEQUENCE: 5

RAW SEQUENCE LISTING

DATE: 04/17/2001

PATENT APPLICATION: US/09/641,931A

TIME: 14:39:26

Input Set : A:\Robicl.app

Output Set: N:\CRF3\04172001\I641931A.raw

```

74 agcgaattcg tcctgtggac agatcactgc 30
77 <210> SEQ ID NO: 6
78 <211> LENGTH: 30
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: sequence is completely synthesized
85 <400> SEQUENCE: 6
86 gctctcgagg aaggcacagc tgctttccac 30
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 30
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: sequence is completely synthesized
97 <400> SEQUENCE: 7
98 cttctcgagc agtttaaacg tgagcttccc 30
101 <210> SEQ ID NO: 8
102 <211> LENGTH: 30
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: sequence is completely synthesized
109 <400> SEQUENCE: 8
110 acgtctagat catcttcgtg tgctagtcag 30
113 <210> SEQ ID NO: 9
114 <211> LENGTH: 47
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: sequence is completely synthesized
121 <400> SEQUENCE: 9
122 tcgagcagat ctgcagcacc actggtcacg gcaatgtgtc ggagcgg 47
125 <210> SEQ ID NO: 10
126 <211> LENGTH: 43
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: sequence is completely synthesized
133 <400> SEQUENCE: 10
134 ccgctccgac acattgccgt gaccagtggg gctgcagatc tgc 43
137 <210> SEQ ID NO: 11
138 <211> LENGTH: 60
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: sequence is completely synthesized
145 <400> SEQUENCE: 11
146 gtgtccaagc catcagaggg gaaataaagc atctctacgg tggctctaaa tagtcagcat 60

```

RAW SEQUENCE LISTING DATE: 04/17/2001
 PATENT APPLICATION: US/09/641,931A TIME: 14:39:26

Input Set : A:\Robicl.app
 Output Set: N:\CRF3\04172001\I641931A.raw

```

149 <210> SEQ ID NO: 12
150 <211> LENGTH: 28
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: sequence is completely synthesized
157 <400> SEQUENCE: 12
158 ccagagctca tgcggaccac tcttctgt                28
161 <210> SEQ ID NO: 13
162 <211> LENGTH: 24
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: sequence is completely synthesized
169 <400> SEQUENCE: 13
170 tcgcgattta aattaattaa gctt                24
173 <210> SEQ ID NO: 14
174 <211> LENGTH: 24
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: sequence is completely synthesized
181 <400> SEQUENCE: 14
182 aagcttaatt aatttaaadc gcga                24
185 <210> SEQ ID NO: 15
186 <211> LENGTH: 18
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: sequence is completely synthesized
193 <400> SEQUENCE: 15
194 agacgcgtag atctcacc                18
197 <210> SEQ ID NO: 16
198 <211> LENGTH: 20
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: sequence is completely synthesized
205 <400> SEQUENCE: 16
206 gatccgcacc gcaatatggc                20
209 <210> SEQ ID NO: 17
210 <211> LENGTH: 25
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: sequence is completely synthesized
217 <400> SEQUENCE: 17
218 tctagagatg cattatgcac atcag                25
221 <210> SEQ ID NO: 18

```

RAW SEQUENCE LISTING

DATE: 04/17/2001

PATENT APPLICATION: US/09/641,931A

TIME: 14:39:26

Input Set : A:\Robicl.app

Output Set: N:\CRF3\04172001\I641931A.raw

```

222 <211> LENGTH: 60
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: sequence is completely synthesized
229 <400> SEQUENCE: 18
230 tccaagccat cagaggggaa ataaagcatc tctacggtgg tcctaaatag tcagcatagt 60
233 <210> SEQ ID NO: 19
234 <211> LENGTH: 60
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: sequence is completely synthesized
241 <400> SEQUENCE: 19
242 actatgctga ctatttagga ccaccgtaga gatgctttat ttcccctctg atggcttgga 60
245 <210> SEQ ID NO: 20
246 <211> LENGTH: 20
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: sequence is completely synthesized
253 <400> SEQUENCE: 20
254 tagtcagcat agtacatttc 20
257 <210> SEQ ID NO: 21
258 <211> LENGTH: 51
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: sequence is completely synthesized
265 <400> SEQUENCE: 21
266 tcgatccgaa ttgcgcggccg ctctattgga tcctcgagca gatctgcagc a 51
269 <210> SEQ ID NO: 22
270 <211> LENGTH: 148
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: sequence is completely synthesized
277 <400> SEQUENCE: 22
278 agatgaatca agcttatcga taccgtcgag catgcatcta ggtgtccaag ccatcagagg 60
279 ggaaataaag catctctacg gtggtcctaa atagtcagca tagtacattt catctgacta 120
280 atactacaac accaccacca tgaataga 148
283 <210> SEQ ID NO: 23
284 <211> LENGTH: 18
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: sequence is completely synthesized
291 <400> SEQUENCE: 23
292 gagtgggtccg catggtga 18

```

RAW SEQUENCE LISTING

DATE: 04/17/2001

PATENT APPLICATION: US/09/641,931A

TIME: 14:39:26

Input Set : A:\Robic1.app

Output Set: N:\CRF3\04172001\I641931A.raw

```

295 <210> SEQ ID NO: 24
296 <211> LENGTH: 54
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: sequence is completely synthesized
303 <400> SEQUENCE: 24
304 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggaatt tcgcgattta aatt      54
307 <210> SEQ ID NO: 25
308 <211> LENGTH: 48
309 <212> TYPE: DNA
310 <213> ORGANISM: Sindbis virus
312 <220> FEATURE:
313 <223> OTHER INFORMATION: sequence is completely synthesized
315 <400> SEQUENCE: 25
316 tctgcagcac cactggtcac ggcaatgtgt ttgctcggaa atgtgagc      48
319 <210> SEQ ID NO: 26
320 <211> LENGTH: 16
321 <212> TYPE: PRT
322 <213> ORGANISM: Sindbis virus
324 <220> FEATURE:
325 <223> OTHER INFORMATION: sequence is completely synthesized
327 <400> SEQUENCE: 26
328 Ser Ala Ala Pro Leu Val Thr Ala Met Cys Leu Leu Gly Asn Val Ser
329   1           5           10           15
332 <210> SEQ ID NO: 27
333 <211> LENGTH: 48
334 <212> TYPE: DNA
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: sequence is completely synthesized
340 <400> SEQUENCE: 27
341 tctgcagcac cactggtcac ggcaatgtgt cggagcggaa atgtgagc      48
344 <210> SEQ ID NO: 28
345 <211> LENGTH: 16
346 <212> TYPE: PRT
347 <213> ORGANISM: Artificial Sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: sequence is completely synthesized
352 <400> SEQUENCE: 28
353 Ser Ala Ala Pro Leu Val Thr Ala Met Cys Arg Ser Gly Asn Val Ser
354   1           5           10           15
357 <210> SEQ ID NO: 29
358 <211> LENGTH: 44
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: sequence is completely synthesized
365 <400> SEQUENCE: 29

```

VERIFICATION SUMMARY

DATE: 04/17/2001

PATENT APPLICATION: US/09/641,931A

TIME: 14:39:27

Input Set : A:\Robicl.app

Output Set: N:\CRF3\04172001\I641931A.raw